

# Mehmood Ali

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## EDUCATION

### HAW Hamburg

*Masters of Science in Micro Electronic Systems*

Hamburg, Germany

Oct. 2025 – Jul. 2027

### HAW Hamburg

*Bachelor of Science in Information Engineering*

Hamburg, Germany

Oct. 2021 – Feb. 2026

## EXPERIENCE

### Intern Full-Stack Developer

*Filter Tutor*

Nov 2023 – April 2024

*Karachi, Pakistan*

- Developed full-stack web applications with React.js for responsive UIs, Node.js/Express for server-side logic, and PostgreSQL for database design.
- Deployed applications using Heroku and AWS, implementing best practices for input validation, authentication, and security audits.
- Utilized Git for version control and maintained comprehensive documentation for codebases, APIs, and technical processes.

**Tech Stack: Node.js, JavaScript, React, Git, HTML, CSS, PostgreSQL.**

### Tutor of Lernprojekt (LSL2)

*HAW Hamburg*

Oct 2023 – Oct 2023

*Hamburg, Germany*

- Organized and managed the Lernprojekt for Winter Semester 2023/24, involving over 100 students, using LEGO Spike Bot tasks.
- Monitored and analyzed student progress throughout the project.

## PROJECTS

### Neural Networks and Data Sciences | *Python, Tensor Flow, Jupyter, Pandas*

Oct 2024 – Feb. 2025

- **Elective University Module:** Using Python, Jupyter, and Pandas to analyze Large Language Models (LLMs), with plans to build a custom LLM using TensorFlow.

### Sustainable Fishing Game | *Godot Gaming Engine, Git, Godot Script*

Oct 2024 – Feb 2025

- **Elective University Project:** The game aims to deliver the message of sustainability with regards to over-fishing and plastic pollution that ruins our beautiful oceans.

### OCR Android Application | *Node.js, React, SQLite, Android Studio*

Aug 2024 – Oct 2024

- **Elective University Project:** The application uses the phone's camera to Scan a document and utilizes the OCR capabilities to read and store the data about Dual-Studium students.

### ReactJS and JavaScript Apps | *Node.js, React, Git, HTML, CSS, Express*

- **Keeper App:** Note-taking app with ReactJS. [Live Preview](#) & [GitHub Repo](#)
- **To-Do List App:** Task manager built with ReactJS. [Live Preview](#) & [GitHub Repo](#)
- **Simon Game:** Pattern-matching game with JavaScript. [Live Preview](#) & [GitHub Repo](#)
- **Drum Kit Game:** Plays sounds on keypress/button click using JavaScript. [Live Preview](#) & [GitHub Repo](#)
- **Dice Game:** Random dice roll game for 2 players. [Live Preview](#) & [GitHub Repo](#)

## TECHNICAL SKILLS

**Languages:** JavaScript (ES6), Python, Java, C, HTML5, CSS3, EJS, Godot Script Language

**Frameworks/Libraries:** React.js, Node.js, Express.js, REST APIs, FreeRTOS, Matlab/Simulink

**Databases:** MySQL, PostgreSQL

**Other Tools:** Git, Bash/Shell Command Line, Spyder/Jupyter, Linux (Terminal Commands, AWS Cloud, Heroku)

## CERTIFICATIONS

**The Complete 2024 Web Development Bootcamp - Udemy:** HTML5, CSS3, Javascript, Node, React, PostgreSQL, Web3 and DApps

**Spoken Languages:** German (B1), English (C1/C2)